

Ruying Li

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

160
papers

11,936
citations

60
h-index

106
g-index

164
ext. papers

14,641
ext. citations

14.5
avg, IF

6.38
L-index

#	Paper	IF	Citations
160	Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. <i>Nature Communications</i> , 2016 , 7, 13638	17.4	1085
159	High oxygen-reduction activity and durability of nitrogen-doped graphene. <i>Energy and Environmental Science</i> , 2011 , 4, 760	35.4	1073
158	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , 2013 , 3,	4.9	589
157	Ultrathin MoS ₂ /Nitrogen-Doped Graphene Nanosheets with Highly Reversible Lithium Storage. <i>Advanced Energy Materials</i> , 2013 , 3, 839-844	21.8	417
156	Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage. <i>Advanced Functional Materials</i> , 2012 , 22, 1647-1654	15.6	359
155	Layer by layer assembly of sandwiched graphene/SnO ₂ nanorod/carbon nanostructures with ultrahigh lithium ion storage properties. <i>Energy and Environmental Science</i> , 2013 , 6, 2900	35.4	318
154	Atomic layer deposition of solid-state electrolyte coated cathode materials with superior high-voltage cycling behavior for lithium ion battery application. <i>Energy and Environmental Science</i> , 2014 , 7, 768-778	35.4	284
153	Superior Stable and Long Life Sodium Metal Anodes Achieved by Atomic Layer Deposition. <i>Advanced Materials</i> , 2017 , 29, 1606663	24	221
152	Nitrogen Doping Effects on Carbon Nanotubes and the Origin of the Enhanced Electrocatalytic Activity of Supported Pt for Proton-Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3769-3776	3.8	211
151	Extremely stable platinum nanoparticles encapsulated in a zirconia nanocage by area-selective atomic layer deposition for the oxygen reduction reaction. <i>Advanced Materials</i> , 2015 , 27, 277-81	24	206
150	Promoting the Transformation of Li S to Li S: Significantly Increasing Utilization of Active Materials for High-Sulfur-Loading Li-S Batteries. <i>Advanced Materials</i> , 2019 , 31, e1901220	24	186
149	Atomic layer deposited Pt-Ru dual-metal dimers and identifying their active sites for hydrogen evolution reaction. <i>Nature Communications</i> , 2019 , 10, 4936	17.4	186
148	LiFePO ₄ /graphene as a superior cathode material for rechargeable lithium batteries: impact of stacked graphene and unfolded graphene. <i>Energy and Environmental Science</i> , 2013 , 6, 1521	35.4	183
147	Inorganic-Organic Coating via Molecular Layer Deposition Enables Long Life Sodium Metal Anode. <i>Nano Letters</i> , 2017 , 17, 5653-5659	11.5	183
146	Air-stable Li ₃ InCl ₆ electrolyte with high voltage compatibility for all-solid-state batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2665-2671	35.4	158
145	Design of a mixed conductive garnet/Li interface for dendrite-free solid lithium metal batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 127-134	35.4	150
144	Determining the limiting factor of the electrochemical stability window for PEO-based solid polymer electrolytes: main chain or terminal OH group?. <i>Energy and Environmental Science</i> , 2020 , 13, 1318-1325	35.4	141

143	Cobalt-Doped SnS ₂ with Dual Active Centers of Synergistic Absorption-Catalysis Effect for High-S Loading Li-S Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1806724	15.6	139
142	On rechargeability and reaction kinetics of sodium-air batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 3747-3757	35.4	132
141	A Novel Organic "Polyurea" Thin Film for Ultralong-Life Lithium-Metal Anodes via Molecular-Layer Deposition. <i>Advanced Materials</i> , 2019 , 31, e1806541	24	129
140	Discharge product morphology and increased charge performance of lithium-oxygen batteries with graphene nanosheet electrodes: the effect of sulphur doping. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20170		127
139	Hierarchically porous LiFePO ₄ /nitrogen-doped carbon nanotubes composite as a cathode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7537		126
138	Safe and Durable High-Temperature Lithium-Sulfur Batteries via Molecular Layer Deposited Coating. <i>Nano Letters</i> , 2016 , 16, 3545-9	11.5	126
137	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31240-31248	9.5	125
136	A high-energy sulfur cathode in carbonate electrolyte by eliminating polysulfides via solid-phase lithium-sulfur transformation. <i>Nature Communications</i> , 2018 , 9, 4509	17.4	123
135	Efficient Trapping and Catalytic Conversion of Polysulfides by VS ₄ Nanosites for Li-S Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 755-762	20.1	122
134	Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16427-16432	16.4	113
133	A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal. <i>Angewandte Chemie</i> , 2011 , 123, 442-446	3.6	110
132	In Situ Li PS Solid-State Electrolyte Protection Layers for Superior Long-Life and High-Rate Lithium-Metal Anodes. <i>Advanced Materials</i> , 2018 , 30, e1804684	24	102
131	Atomic scale enhancement of metal-support interactions between Pt and ZrC for highly stable electrocatalysts. <i>Energy and Environmental Science</i> , 2015 , 8, 1450-1455	35.4	101
130	Site-Occupation-Tuned Superionic LiScClHalide Solid Electrolytes for All-Solid-State Batteries. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7012-7022	16.4	97
129	Solid-State Plastic Crystal Electrolytes: Effective Protection Interlayers for Sulfide-Based All-Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1900392	15.6	92
128	Boosting the performance of lithium batteries with solid-liquid hybrid electrolytes: Interfacial properties and effects of liquid electrolytes. <i>Nano Energy</i> , 2018 , 48, 35-43	17.1	92
127	Enhanced Performance of P ₂ -Na _{0.66} (Mn _{0.54} Co _{0.13} Ni _{0.13})O ₂ Cathode for Sodium-Ion Batteries by Ultrathin Metal Oxide Coatings via Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2017 , 27, 1701870	15.6	92
126	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as High-Performance Cathode. <i>Advanced Materials</i> , 2017 , 29, 1703764	24	91

125	Novel approach toward a binder-free and current collector-free anode configuration: highly flexible nanoporous carbon nanotube electrodes with strong mechanical strength harvesting improved lithium storage. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18847		88
124	Unravelling the Chemistry and Microstructure Evolution of a Cathodic Interface in Sulfide-Based All-Solid-State Li-Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 2480-2488	20.1	85
123	Surface aging at olivine LiFePO ₄ : a direct visual observation of iron dissolution and the protection role of nano-carbon coating. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1579-1586	13	84
122	A Versatile Sn-Substituted Argyrodite Sulfide Electrolyte for All-Solid-State Li Metal Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903422	21.8	81
121	Tunable porous structure of metal organic framework derived carbon and the application in lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016 , 302, 174-179	8.9	81
120	Highly stable Na _{2/3} (Mn _{0.54} Ni _{0.13} Co _{0.13})O ₂ cathode modified by atomic layer deposition for sodium-ion batteries. <i>ChemSusChem</i> , 2015 , 8, 2537-43	8.3	80
119	Towards high performance Li metal batteries: Nanoscale surface modification of 3D metal hosts for pre-stored Li metal anodes. <i>Nano Energy</i> , 2018 , 54, 375-382	17.1	80
118	Origin of the high oxygen reduction reaction of nitrogen and sulfur co-doped MOF-derived nanocarbon electrocatalysts. <i>Materials Horizons</i> , 2017 , 4, 900-907	14.4	79
117	High-Performance Li-SeS All-Solid-State Lithium Batteries. <i>Advanced Materials</i> , 2019 , 31, e1808100	24	79
116	Three-Dimensional Nanostructured Air Electrode for Sodium-Oxygen Batteries: A Mechanism Study toward the Cyclability of the Cell. <i>Chemistry of Materials</i> , 2015 , 27, 3040-3047	9.6	79
115	High Capacity, Dendrite-Free Growth, and Minimum Volume Change Na Metal Anode. <i>Small</i> , 2018 , 14, e1703717	11	75
114	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 1035-1043	20.1	73
113	Graphene Nanoribbons Derived from the Unzipping of Carbon Nanotubes: Controlled Synthesis and Superior Lithium Storage Performance. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 881-890	3.8	73
112	An Air-Stable and Dendrite-Free Li Anode for Highly Stable All-Solid-State Sulfide-Based Li Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1902125	21.8	72
111	Non-Aqueous Approach to Synthesize Amorphous/Crystalline Metal Oxide-Graphene Nanosheet Hybrid Composites. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18330-18337	3.8	70
110	Toward High Areal Energy and Power Density Electrode for Li-Ion Batteries via Optimized 3D Printing Approach. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39794-39801	9.5	70
109	High-performance all-solid-state LiBe batteries induced by sulfide electrolytes. <i>Energy and Environmental Science</i> , 2018 , 11, 2828-2832	35.4	69
108	Robust Metallic Lithium Anode Protection by the Molecular-Layer-Deposition Technique. <i>Small Methods</i> , 2018 , 2, 1700417	12.8	65

107	Tailoring interactions of carbon and sulfur in LiS battery cathodes: significant effects of carbon-heteroatom bonds. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12866	13	65
106	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zirconium Coatings for Long Life Next-Generation Battery Systems. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15797-15802	16.4	64
105	Atomic layer deposited coatings to significantly stabilize anodes for Li ion batteries: effects of coating thickness and the size of anode particles. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2306	13	63
104	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1654-1661	9.5	63
103	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. <i>ACS Catalysis</i> , 2019 , 9, 9350-9358	13.1	61
102	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1900261	12.8	60
101	Insight into MoS ₂ /MoN Heterostructure to Accelerate Polysulfide Conversion toward High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003314	21.8	60
100	Toward a Sodium-Air Battery: Revealing the Critical Role of Humidity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13433-13441	3.8	58
99	Stabilization of all-solid-state LiS batteries with a polymer-ceramic sandwich electrolyte by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23712-23719	13	51
98	Li ₁₀ Ge(P _{1-x} S _x) ₂ S ₁₂ Lithium-Ion Conductors with Enhanced Atmospheric Stability. <i>Chemistry of Materials</i> , 2020 , 32, 2664-2672	9.6	50
97	Mitigating the Interfacial Degradation in Cathodes for High-Performance Oxide-Based Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4954-4961	9.5	50
96	A bifunctional solid state catalyst with enhanced cycling stability for Na and LiO ₂ cells: revealing the role of solid state catalysts. <i>Energy and Environmental Science</i> , 2017 , 10, 286-295	35.4	47
95	Active and Stable Pt-Ni Alloy Octahedra Catalyst for Oxygen Reduction via Near-Surface Atomical Engineering. <i>ACS Catalysis</i> , 2020 , 10, 4205-4214	13.1	47
94	Atomic layer deposited Li ₄ Ti ₅ O ₁₂ on nitrogen-doped carbon nanotubes. <i>RSC Advances</i> , 2013 , 3, 7285	3.7	47
93	A flexible electron-blocking interfacial shield for dendrite-free solid lithium metal batteries. <i>Nature Communications</i> , 2021 , 12, 176	17.4	47
92	Interaction of Carbon Coating on LiFePO ₄ : A Local Visualization Study of the Influence of Impurity Phases. <i>Advanced Functional Materials</i> , 2013 , 23, 806-814	15.6	46
91	Synchrotron-Based X-ray Absorption Fine Structures, X-ray Diffraction, and X-ray Microscopy Techniques Applied in the Study of Lithium Secondary Batteries. <i>Small Methods</i> , 2018 , 2, 1700341	12.8	44
90	Three growth modes and mechanisms for highly structure-tunable SnO ₂ nanotube arrays of template-directed atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12321		44

- 89 Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 31786-31793 9.5 43
- 88 Dynamics of the Garnet/Li Interface for Dendrite-Free Solid-State Batteries. *ACS Energy Letters*, **2020**, 5, 2156-2164 20.1 41
- 87 Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte. *Angewandte Chemie*, **2019**, 131, 16579-16584 9.1 40
- 86 Eliminating the Detrimental Effects of Conductive Agents in Sulfide-Based Solid-State Batteries. *ACS Energy Letters*, **2020**, 5, 1243-1251 20.1 38
- 85 Engineering the conductive carbon/PEO interface to stabilize solid polymer electrolytes for all-solid-state high voltage LiCoO₂ batteries. *Journal of Materials Chemistry A*, **2020**, 8, 2769-2776 13 38
- 84 Heterostructural coaxial nanotubes of CNT@Fe₂O₃ via atomic layer deposition: effects of surface functionalization and nitrogen-doping. *Journal of Nanoparticle Research*, **2011**, 13, 1207-1218 2.3 37
- 83 Utilizing the full capacity of carbon black as anode for Na-ion batteries via solvent co-intercalation. *Nano Research*, **2017**, 10, 4378-4387 10 36
- 82 3D boron doped carbon nanorods/carbon-microfiber hybrid composites: synthesis and applications in a highly stable proton exchange membrane fuel cell. *Journal of Materials Chemistry*, **2011**, 21, 18195 36
- 81 Engineering the Low Coordinated Pt Single Atom to Achieve the Superior Electrocatalytic Performance toward Oxygen Reduction. *Small*, **2020**, 16, e2003096 11 36
- 80 Origin of Superionic LiYInCl Halide Solid Electrolytes with High Humidity Tolerance. *Nano Letters*, **2020**, 20, 4384-4392 11.5 35
- 79 Atomic layer deposited tantalum oxide to anchor Pt/C for a highly stable catalyst in PEMFCs. *Journal of Materials Chemistry A*, **2017**, 5, 9760-9767 13 33
- 78 The application of carbon materials in nonaqueous Na-O₂ batteries **2019**, 1, 141-164 33
- 77 Nanoscale stabilization of Li-Sulfur batteries by atomic layer deposited Al₂O₃. *RSC Advances*, **2014**, 4, 27126 3.7 33
- 76 Size-Mediated Recurring Spinel Sub-nanodomains in Li- and Mn-Rich Layered Cathode Materials. *Angewandte Chemie - International Edition*, **2020**, 59, 14313-14320 16.4 32
- 75 How to Control the Discharge Products in Na-O Cells: Direct Evidence toward the Role of Functional Groups at the Air Electrode Surface. *Journal of Physical Chemistry Letters*, **2017**, 8, 4794-4800 6.4 30
- 74 High-Performance and Recyclable Al-Air Coin Cells Based on Eco-friendly Chitosan Hydrogel Membranes. *ACS Applied Materials & Interfaces*, **2018**, 10, 19730-19738 9.5 30
- 73 In situ formation of highly controllable and stable Na₃PS₄ as a protective layer for Na metal anode. *Journal of Materials Chemistry A*, **2019**, 7, 4119-4125 13 29
- 72 Atomically precise growth of sodium titanates as anode materials for high-rate and ultralong cycle-life sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 24281-24288 13 29

71	Thermal and chemical durability of nitrogen-doped carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	29
70	Revealing the charge/discharge mechanism of NaO ₂ cells by in situ soft X-ray absorption spectroscopy. <i>Energy and Environmental Science</i> , 2018 , 11, 2073-2077	35.4	29
69	On the Cycling Performance of Na-O ₂ Cells: Revealing the Impact of the Superoxide Crossover toward the Metallic Na Electrode. <i>Advanced Functional Materials</i> , 2018 , 28, 1801904	15.6	28
68	Temperature-Dependent Chemical and Physical Microstructure of Li Metal Anodes Revealed through Synchrotron-Based Imaging Techniques. <i>Advanced Materials</i> , 2020 , 32, e2002550	24	27
67	Unraveling the Origin of Moisture Stability of Halide Solid-State Electrolytes by In Situ and Operando Synchrotron X-ray Analytical Techniques. <i>Chemistry of Materials</i> , 2020 , 32, 7019-7027	9.6	27
66	Implanting CNT Forest onto Carbon Nanosheets as Multifunctional Hosts for High-Performance Lithium Metal Batteries. <i>Small Methods</i> , 2019 , 3, 1800546	12.8	27
65	Atomic layer deposited aluminium phosphate thin films on N-doped CNTs. <i>RSC Advances</i> , 2013 , 3, 4492	3.7	26
64	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solid-State Na Metal Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001118	15.6	25
63	Multi-functional nanowall arrays with unrestricted Li ⁺ transport channels and an integrated conductive network for high-areal-capacity LiB batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22958-22965	13.2	25
62	A universal wet-chemistry synthesis of solid-state halide electrolytes for all-solid-state lithium-metal batteries. <i>Science Advances</i> , 2021 , 7, eabh1896	14.3	25
61	Titanium Dioxide/Lithium Phosphate Nanocomposite Derived from Atomic Layer Deposition as a High-Performance Anode for Lithium Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600369	4.6	24
60	Unveiling the Nature of Pt Single-Atom Catalyst during Electrocatalytic Hydrogen Evolution and Oxygen Reduction Reactions. <i>Small</i> , 2021 , 17, e2007245	11	24
59	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State Li-O Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5821-5826	16.4	22
58	Selective atomic layer deposition of RuO _x catalysts on shape-controlled Pd nanocrystals with significantly enhanced hydrogen evolution activity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24397-24406	12	22
57	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2019 , 9, 5365-5374	13.1	21
56	Tailoring the Mechanical and Electrochemical Properties of an Artificial Interphase for High-Performance Metallic Lithium Anode. <i>Advanced Energy Materials</i> , 2020 , 10, 2001139	21.8	21
55	Visualizing the Oxidation Mechanism and Morphological Evolution of the Cubic-Shaped Superoxide Discharge Product in Na ₂ S ₂ O ₈ /Air Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1808332	15.6	20
54	Deciphering Interfacial Chemical and Electrochemical Reactions of Sulfide-Based All-Solid-State Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100210	21.8	20

53	A facile route to synthesize titanium oxide nanowires via water-assisted chemical vapor deposition. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 385-391	2.3	19
52	Revealing the Chemical Mechanism of NaO ₂ Decomposition by In Situ Raman Imaging. <i>Chemistry of Materials</i> , 2018 , 30, 5156-5160	9.6	19
51	Aligning the binder effect on sodium-air batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1473-1484	13	18
50	A general strategy for preparing pyrrolic-N type single-atom catalysts via pre-located isolated atoms. <i>Nature Communications</i> , 2021 , 12, 6806	17.4	18
49	Suppressing Corrosion of Aluminum Foils via Highly Conductive Graphene-like Carbon Coating in High-Performance Lithium-Based Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32826-32832	9.5	17
48	Advanced High-Voltage All-Solid-State Li-Ion Batteries Enabled by a Dual-Halogen Solid Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2100836	21.8	17
47	Atomic Layer Deposition of Hierarchical CNTs@FePO ₄ Architecture as a 3D Electrode for Lithium-Ion and Sodium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600468	4.6	16
46	Unveiling the Interfacial Instability of the Phosphorus/Carbon Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30763-30773	9.5	16
45	Recent advances and strategies in the stabilization of single-atom catalysts for electrochemical applications 2020 , 2, 488-520		16
44	Understanding the Critical Role of Binders in Phosphorus/Carbon Anode for Sodium-Ion Batteries through Unexpected Mechanism. <i>Advanced Functional Materials</i> , 2020 , 30, 2000060	15.6	15
43	Regulated lithium plating and stripping by a nano-scale gradient inorganic-organic coating for stable lithium metal anodes. <i>Energy and Environmental Science</i> , 2021 , 14, 4085-4094	35.4	15
42	New Insight of Pyrrole-Like Nitrogen for Boosting Hydrogen Evolution Activity and Stability of Pt Single Atoms. <i>Small</i> , 2021 , 17, e2004453	11	15
41	Highly stable one-dimensional Pt nanowires with modulated structural disorder towards the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24830-24836	13	14
40	O ₂ /O ₂ ⁻ Crossover- and Dendrite-Free Hybrid Solid-State NaO ₂ Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 9024-9031	9.6	14
39	A study on the bactericidal properties of Cu-coated carbon nanotubes. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 147-150		14
38	New Insights into the High-Performance Black Phosphorus Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2101259	24	14
37	Ultralong-Life Quasi-Solid-State Li-O ₂ Batteries Enabled by Coupling Advanced Air Electrode Design with Li Metal Anode Protection. <i>Small Methods</i> , 2018 , 3, 1800437	12.8	14
36	Enhancing metal-support interaction by in situ ion-exchanging strategy for high performance Pt catalysts in hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16582-16589	13	13

35	Fast Charging All Solid-State Lithium Batteries Enabled by Rational Design of Dual Vertically-Aligned Electrodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2005357	15.6	13
34	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zirconium Coatings. <i>Advanced Functional Materials</i> , 2021 , 31, 2010526	15.6	13
33	Batteries: Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage (Adv. Funct. Mater. 8/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 1646-1646	15.6	12
32	Reversible Silicon Anodes with Long Cycles by Multifunctional Volumetric Buffer Layers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4093-4101	9.5	12
31	Enhancement of PEMFC performance by using carbon nanotubes supported Pt/Co alloy catalysts. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009 , 4, 12-16	1.3	10
30	Phase Evolution of a Prenucleator for Fast Li Nucleation in All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001191	21.8	10
29	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zirconium Coatings for Long Life Next-Generation Battery Systems. <i>Angewandte Chemie</i> , 2019 , 131, 15944-15949	3.6	9
28	A facile approach to synthesize poly(4-vinylpyridine)/multi-walled carbon nanotubes nanocomposites: highly water-dispersible carbon nanotubes decorated with gold nanoparticles. <i>Colloid and Polymer Science</i> , 2011 , 289, 783-789	2.4	9
27	Origin of High Ionic Conductivity of Sc-Doped Sodium-Rich NASICON Solid-State Electrolytes. <i>Advanced Functional Materials</i> , 2021 , 31, 2102129	15.6	9
26	Realizing Solid-Phase Reaction in Li/S Batteries via Localized High-Concentration Carbonate Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2101004	21.8	9
25	Phosphorene Degradation: Visualization and Quantification of Nanoscale Phase Evolution by Scanning Transmission X-ray Microscopy. <i>Chemistry of Materials</i> , 2020 , 32, 1272-1280	9.6	8
24	One-step in situ synthesis and characterization of W ₁₈ O ₄₉ @carbon coaxial nanocables. <i>Journal of Materials Research</i> , 2009 , 24, 1833-1841	2.5	8
23	Advanced Support Materials and Interactions for Atomically Dispersed Noble-Metal Catalysts: From Support Effects to Design Strategies. <i>Advanced Energy Materials</i> , 2022 , 12, 2102556	21.8	8
22	Engineering Surface Oxygenated Functionalities on Commercial Carbon toward Ultrafast Sodium Storage in Ether-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37116-37127	9.5	8
21	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State Li-O ₂ Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 5885-5890	3.6	8
20	Size-Mediated Recurring Spinel Sub-nanodomains in Li- and Mn-Rich Layered Cathode Materials. <i>Angewandte Chemie</i> , 2020 , 132, 14419-14426	3.6	7
19	Highly stable halide electrolyte-based all-solid-state Li-Se batteries.. <i>Advanced Materials</i> , 2022 , e22008564	5.4	7
18	Phosphorene Nanosheets Exfoliated from Low-Cost and High-Quality Black Phosphorus for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7508-7515	5.6	6

17	Pt/TiSi -NCNT Novel Janus Nanostructure: A New Type of High-Performance Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10771-10777	9.5	6
16	Inside Cover: Direct Growth of Single-Crystal Pt Nanowires on Sn@CNT Nanocable: 3D Electrodes for Highly Active Electrocatalysts (Chem. Eur. J. 3/2010). <i>Chemistry - A European Journal</i> , 2010 , 16, 732-732	4.8	6
15	Reviving Anode Protection Layer in Na-O ₂ Batteries: Failure Mechanism and Resolving Strategy. <i>Advanced Energy Materials</i> , 2021 , 11, 2003789	21.8	6
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